

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE 1 OF 1 PAGES
2. AMENDMENT/MODIFICATION NO. AM0004		3. EFFECTIVE DATE 25-Aug-2000	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Army Engineering and Support Center Attention CEHNC-CT-E /W. Hampton P.O. Box 1600 Huntsville, AL 35807-4301		CODE DACA87	7. ADMINISTERED BY (If other than Item 6)		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)			(<input checked="" type="checkbox"/>)	9A. AMENDMENT OF SOLICITATION NO. DACA87-00-R-0001	
				9B. DATED (SEE ITEM 11) 11- JUL-2000	
				10A. MODIFICATION OF CONTRACT/ORDER NO.	
CODE					10B. DATED (SEE ITEM 13)
FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

<input checked="" type="checkbox"/>	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority) FAR 52.243-3 Changes

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

Request for Proposal (RFP) DACA87-00-R-0001, Construction of Tactical and Tactical Support Facilities for the X-Band Radar at Eareckson Station, Shemya, AK for the National Missile Defense (NMD) Program.

SEE CONTINUATION SHEET FOR DETAILED CHANGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

- A. Amendment 0004 is issued to make changes within the Notice To Proceeds(NTPs); provide additional answers to questions received through 24 August 2000; and provide a revised Attachment 5(Cost Breakdown), along with the EXCEL Spreadsheet.
- B. Vertical lines have been placed in the margins of the changed pages to indicate where changes have been made, however there is no responsibility on the part of the Government that these are the only changes. (Note, the unchanged pages of the document are included for information purposes only or for ease in replacing parts of sections).
- C. Offerors must acknowledge receipt of this amendment prior to the hour and date specified for receipt of proposals. The date for receipt of proposals remain unchanged as stated in Amendment 0003.
- C. All other terms and conditions of this solicitation remain unchanged.

SUMMARY OF WORK
National Missile Defense
Section 00010

1.0 GENERAL. The United States of America has initiated a program to deploy a National Missile Defense (NMD) System consisting of a fixed land-based missile defense system capable of intercepting and destroying a limited inter-continental ballistic missile attack. Development and fielding of NMD is a multi-phased, dynamic effort, lead and managed by the Ballistic Missile Defense Organization's (BMDO) Joint Program Office (JPO) and its lead systems integrator (LSI), the Boeing Company. One major element of this system is the X-band Radar (XBR). Raytheon, under contract to the LSI, is developing the XBR, a phased-array radar positioned on a circular foundation enclosed in an air-supported radome.

There are other candidate sites in Alaska and North Dakota currently under consideration for constructing NMD Systems; however, this solicitation is for the construction of XBR facilities at Eareckson Air Station, Shemya Island, AK. The Contractor shall deliver a complete and usable XBR facility to include the antenna mount foundation and supporting radome structure and a radar control and support facility for the LSI to install tactical equipment. When the tactical equipment is in place the radar facility will be complete.

1.1 Program Milestones. The Beneficial Occupancy Dates (BOD) for critical elements of the project are listed below:

BASELINE SCHEDULE	Projected NTP	Projected Final BOD
XBR Site Facilities		
Antenna Mount Foundation	5/2/01**	4/1/02 *
Radome Support	7/4/01**	5/1/03 *
Control & Support Facility	7/4/01**	12/1/03
Power Plant	7/4/01**	12/1/03
Fuel Tank	10/1/01	12/1/03
Water Facilities	10/1/01	12/1/03
Personnel Housing & Administrative Space (Bldg. 600)	10/1/01	12/1/03
Personnel Housing (Bldg. 598)	12/1/03	1/3/05

* Incremental BOD. Final BOD is 12/1/03 **See paragraph 1.2.4 for additional NTPs.

The BOD is defined as the date following construction on which beneficial occupancy is granted to the user of the facility. After contract award, subject to the bonding requirements of FAR 28.102-1(c) and insurance recommendations of FAR 52.242-4019, the Government plans to issue a partial Notice to Proceed (NTP) for project planning and procurement of items necessary to support the 04/02/01 construction start at the site.

1.2.4 Supporting Activities after Issuance of Partial NTPs. It is planned that the following Partial NTPs may be issued on the dates specified:

1.2.4.1 The following actions will be authorized for the Partial NTP to be issued on 12 Dec 00, after contract award (not all inclusive):

1.2.4.1.1 Contractor Initial Actions

- a. Finalize Contract Management Procedures
- b. Develop organization
- c. Reassign/hire contractor staff
- d. Develop work breakdown structure
- e. Establish Earned-value Management System
 - (1) Schedule
 - (2) Cost
 - (3) Quality
 - (4) Safety
 - (5) Reports
- f. Partnering
 - (1) NMD Joint Program Office
 - (2) Lead System Integrator
 - (3) US Army Corps of Engineers
- g. Detailed site visit
- h. Integrated Baseline Review
- i. Begin temporary renovations of dormitory Bldg 598 and office space in Bldg 611
- j. Construction Plans and Permits
- k. Environmental Permits
- l. Determine long lead-time items, and provide submittals, and/or, shop drawings, as required (not all inclusive)
 - (a) Barges
 - (b) XBR Reinforcing Steel and Structural Steel
 - (c) Aggregate
 - (d) Seismic Isolators and Dampers
(Springs and Fuses)
 - (e) Form work
 - (f) Others

1.2.4.2 Limited NTP for Mobilization, to be issued on 15 Feb 01:

- a. Prepare Construction Contractor camp, as required
- b. Survey of facilities
- c. Establish CONUS Acquisition and Logistics Operations
- d. Acquire Contractor Material/Equipment
- e. Provide submittals, and/or, shop drawings, as required, for procurement of generators and switchgear
- f. Air Transport Material/Equipment for Shemya Preparation Team
- g. Mobilize Preparation Team to Shemya
 - Acquire/Install Temporary Construction Utilities
 - Install Office Equipment and Dorm Furniture
 - Provide USACE Office Area and Materials Lab
 - Initiate Personnel Support for Construction Operations
 - Initiate Fire Protection/Security for Construction Operations
 - Initiate Shemya Island Logistics Support (Air, Sea, etc.)
 - Initiate Safety/Environmental Compliance Plans
 - Prepare Temporary Construction Office
 - Secure Existing Facilities for Construction Management Office and Material/Equipment Storage

1.2.4.3 Limited NTP to Barge Equipment and Materials, to be issued on 2 Apr 01:

- a. Ship loaded barges
- b. Stage equipment and materials on Shemya
- c. Upgrade island roads for construction contractor material movement requirements
- d. Construct concrete batch plant

1.2.4.4 Limited NTP to Begin Site Preparation, to be issued on 2 May 01:

- a. Clearing and grubbing of all building sites
- b. Site excavation, overburden and peat removal
- c. Construct Subsurface Antenna Mount Foundation (AMF) foundation system (including piles)
- d. Install formwork and place reinforcing steel for reinforced concrete AMF mat foundation

1.2.4.5 Limited NTP to Begin Radar Surface Foundation Construction, to be issued on 4 Jul 01:

- a. Place AMF mat foundation concrete
- b. Initiate facility construction activities for all other facilities IAW approved contractor's construction schedule

1.2.4.6 Limited NTP to Begin AMF Construction, to be issued IAW approved contractor's construction schedule:

- a. Remaining work required to complete the AMF construction.

OFFER ITEM	CLIN	MAN HOU RS			UNIT	PRIME OR SUB		CONST. EQUIP. \$	LABOR \$	SHIPPING \$	MARKUP ON SUB COST \$	SUB TOTAL \$	INDIRECT COST (ALL INCLUSIVE)	FEE (AWARD)	PRIME TOTAL COST
		SUB	PRI	ME		MATERIAL \$	SUB								
Schedule 1: Shemya, Alaska															
X-Band Radar (MCD)	0001AA	0	0	0								\$0	\$0	\$0	\$0
3.03.5.1 Tactical Facilities		0	0	0			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3.03.5.1.1 Radar Operations Facility		0	0	0	1	EA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Substructure*				0								\$0			\$0
Superstructure				0								\$0			\$0
Exterior Closure				0								\$0			\$0
Roofing				0								\$0			\$0
Interior Construction				0								\$0			\$0
Plumbing				0								\$0			\$0
HVAC				0								\$0			\$0
Fire Protection				0								\$0			\$0
Systems				0								\$0			\$0
Electrical				0								\$0			\$0
Security System				0								\$0			\$0
Special Construction (Shielding)				0								\$0			\$0
Other Costs				0								\$0			\$0
3.03.5.2 Tactical Support Facilities		0	0	0			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3.03.5.2.1 Power Plant		0	0	0	1	EA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Substructure				0								\$0			\$0
Superstructure				0								\$0			\$0
Exterior Closure				0								\$0			\$0
Roofing				0								\$0			\$0
Interior Construction				0								\$0			\$0
Plumbing				0								\$0			\$0
HVAC				0								\$0			\$0
Fire Protection				0								\$0			\$0
Systems				0								\$0			\$0
Electrical				0								\$0			\$0
Security System				0								\$0			\$0
Special Construction (Shielding)				0								\$0			\$0
Other Costs				0								\$0			\$0
3.03.5.2.2 Fuel Storage Tank		0	0	0	1	EA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Substructure				0								\$0			\$0
Superstructure				0								\$0			\$0
Exterior Closure				0								\$0			\$0
Roofing				0								\$0			\$0
Interior Construction				0								\$0			\$0
Plumbing				0								\$0			\$0
HVAC				0								\$0			\$0
Fire Protection				0								\$0			\$0

[illegible]

[illegible]

QUESTIONS & ANSWERS

111. Q. Is there a LAN existing on Shemya today?

A. There is no LAN system on Eareckson at this time.

112. Q. Is there enough room on the Meridian 1, Option 81C for additional users?

A. The telephone switch is supposed to handle up to 10,000 telephones. An additional card will be required for additional 16 telephones. Cost is about \$2000/card. Connection to the switch by the local contract would have to be handled by the Alaska District. Recurring cost would also be coordination with the Alaska District.

113. Q. Is there room in the IDNX 90 for additional users? If yes, how many? If yes, what are the costs associated with adding those users? If no, what equipment/labor to install, etc would be required to gain access to the IDNX 90?

A. This information have not been determined. Coordinate with Alaska District after contract award.

114. Q. What software revision is the IDNX 90? (This will impact ability to provide VTC services.)

A. This information have not been determined. Coordinate with Alaska District after contract award.

115. Q. Is there existing cable infrastructure on the island? If so, in what buildings – how many drops and of what type and category. If not, is there a resource on the island to provide cabling? If not, would a contractor be allowed to install cable?

A. There is precocious little fiber on the island, and most of it is abandoned and probably cut. There is quite a bit of copper on the island and except in a few areas it is in good shape. Most buildings will have adequate copper for both phones and data. As for installing cable, this will have to be coordinated with the Alaska District.

116. Q. Is there a representative at AT&T Alascom that we can obtain T1 costs from – both installation and recurring?

A. Be sure you coordinate with the Alaska District if you plan to bring any connection to the island.

117. Q. What software revision is the Meridian 1, Option 81C? Is it ISDN compatible? If yes, how much would it be to install?

A. There was a move to upgrade the switch to handle ISDN, however coordinate with the Alaska District.

118. Q. How many T1's may we add to the island? What are the installation and recurring charges for those services?

A. This information have not been determined. Coordinate with Alaska District after contract award.

119. Q. **Section 16263**

- (a) Para 1.2.1 – Power Plant Load Model 1: No Transient Recovery time is stated for load additions
 - (b) Para 2.2 – Engine: The engine is to operate on JP-8 fuel; to determine any applicable de-rating for using this fuel, the specific API Gravity of fuel to be used at the site is required. JP-8 has a wide variability of gravity; to accurately determine the engine output, this number is required. Also, to determine the potential exhaust emissions for these engines, the sulfur content of the fuel is required.
 - (c) Para 2.3.4 Fuel Day tank: No mention regarding the fuel tanks being UL listed, double wall
 - (d) Para 2.20 – Emissions: Paragraph indicates the exhaust emissions shall not exceed 250 tons, total. It does not state if this is per engine, or the entire system. Without information regarding the fuel, stated above, and without knowing how many engines are expected run (what load level, how many hours per year) it is impossible to estimate an emissions reduction system to meet the specifications.
 - (e) Para 3.5.7.2 – Multiple Combinations Paragraph describes parallel operation of all different combinations of generator sets in the system “at service load.” There are load stated in the parameter schedule; for estimating required loadbank capacity, what load is to be used?
- A. Question 118(c) That is correct. We do not know of a code requirement for these temporary storage tanks to be double walled or UL listed.

Questions 118(a,b,d & e) will be provided as the design is completed.